Certified System ISO 9001

Stanilite nexus RF

# Nexus RF User Guide

## Chapter 5
## AC/ACR Website Interface Guide

Doc No: 29-00001 (Chapter 5)

Thomas&Betts
A Member of the ABB Group

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# Introduction

The Nexus® RF system provides a website based user interface to the operator via the Area Controller's (AC's) inbuilt website server.

The website interface provides all access to all monitoring, configuration and testing functionality of the system.

The AC's website server can be accessed, via any website browser capable device that can be connected to the systems backbone network.

The website page address required is the IP4 address of the AC. If the IP4 address for the AC is 10.224.5.2 then the appropriate website address will be http://10.224.5.2 (or https://10.224.5.2, see note 3 below).

The remainder of this chapter introduces the main pages of the website user interface required for the monitoring, configuration and testing of the system.

Notes:

1. All AC/ACR Controllers provide the website server functionality, so you can access the system by directing your browser to the IP4 address of any one of the sites controllers.
2. As the system is website server based, no specific PC software is required. The system can be accessed from any platform that provides website browser functionality, this includes i-Pad and android devices.
3. The old style AC/ACR devices only support http access to the website server, whereas the newer AC/ACR hardware utilises encrypted website access via https.
4. Ensure that the IP setting for your PC or laptops area connection is correctly setup on the correct network domain.

# Nexus RF Introduction Page

- On directing a website browser to an AC/ACR Controller you will be presented with the Nexus **Greeting** page, as shown in figure 1.
- To proceed to the **Login** page you need to click the mouse over the Stanilite®/Nexus icon.

# Login Page

- Access to the system is protected by a **username/password** login.
- The default username/password for the system is **nexus/nexustnb**.
- The **Login** page appears as per figure 2.
- After a successful login the **Domain** page is displayed.

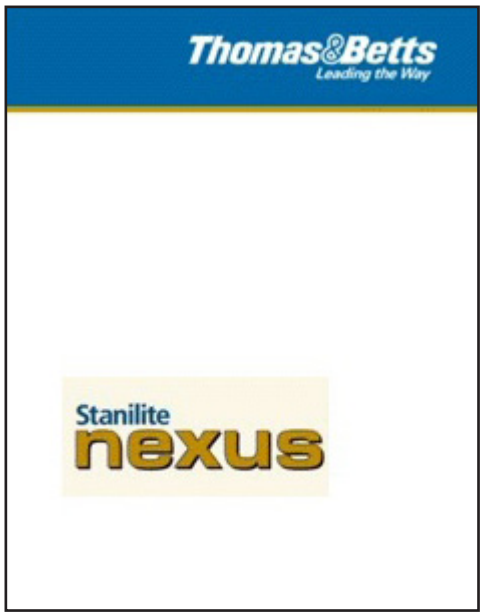



**Figure 1 - Greeting Page**

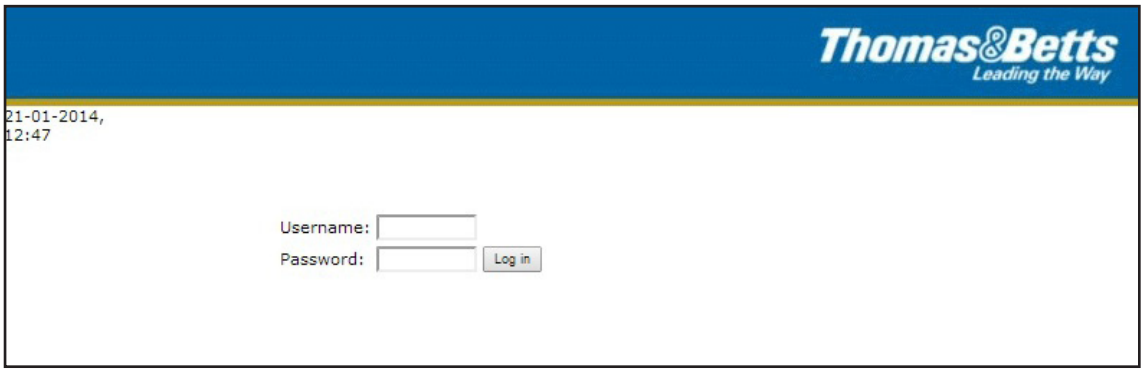



**Figure 2 - Login Page**

# Domain Page

The **Domain** page illustrated in figure 3, provides a complete summary of the system with regards to the state of the fittings, Routers and groups. It is effectively the **Home** page of the system and provides many navigation options to the other pages within the system. The following sections detail each of the main features presented on this page.

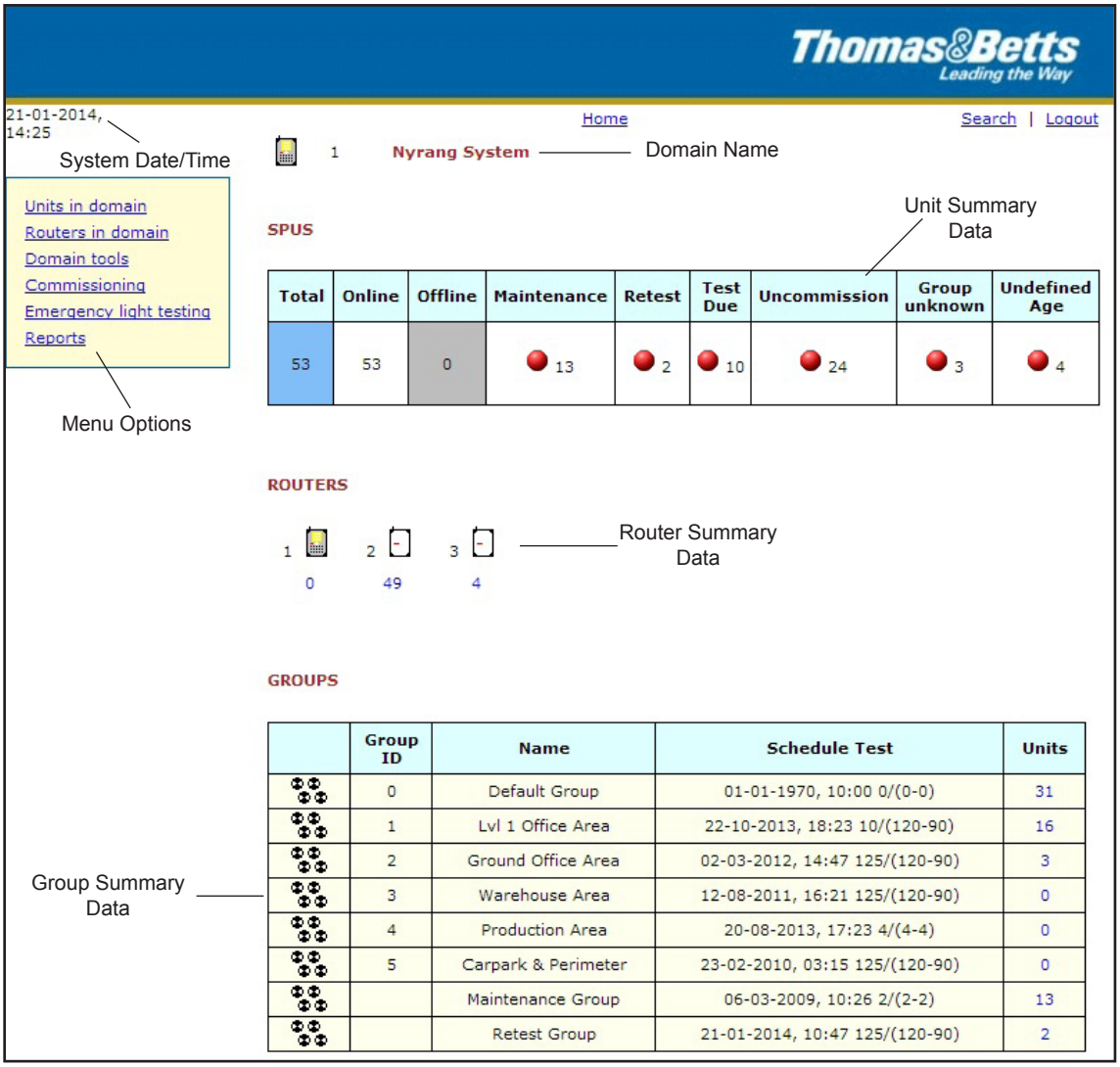



**Figure 3 - Domain Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Units in Domain | **Units in Domain** page, refer page 7 |
| Routers in Domain | **Routers in Domain** page, refer page 10 |
| Domain Tools | **Domain Tools** page, refer page 13 |
| Commissioning | **Commissioning** page, refer page 15 |
| Emergency Light Testing | **Emergency Light Testing** page, refer page 17 |
| Reports | **Reports** page, refer page 20 |

## Unit Summary Data

This section provides a summary of the unit status for the site, each field is described in the following table. Note: Some of the fault fields are only displayed if there are current fittings presenting with this fault, ie: Undefined Age.

| Item | Description | Page Link |
|---|---|---|
| Total | Number of fittings in the system | **Units in Domain** page, refer page 7 |
| Online | Number of fittings communicating correctly | **Online Units** page |
| Offline | Number of non-communicating fittings | **Offline Units** page |
| Maintenance | Number of fitting in the Maintenance Group | **Maintenance Group** page |
| Retest | Number of fittings in the Retest Group | **Retest Group** page |
| Test Due | Number of fittings overdue for their 6 monthly test | **Test Due** page |
| Uncommission | Number of uncommissioned fittings | **Uncommissioned Units** page |
| Two Day Offline | Number of fittings that have been continuously offline for > 2 days | **2 Day Offline Units** page |
| Duplicates | Number of fittings that have been incorrectly commissioned with duplicated SPU ID's | **Duplicated Units** page |
| Undefined Age | Number of fittings with invalid unit, lamp and/or battery ages | **Undefined Age Units** page |

## Router Summary Data

This section displays the Routers in the system and the number of fittings that are currently meshed to each of these Routers. Selecting one of the Routers will result in the **Router Details** page (refer to page 21) being displayed for that Router.

## Group Summary Data

This section displays the **Maintenance**, **Retest**, **Default** and **User Defined Groups** in the system and the number of fittings that are currently allocated to each of these groups.

| Column | Description | Page Link |
|---|---|---|
| 1 - Group Tools Link | Link to the Group Tools page for this group | **Group Tools** page, refer page 18 |
| 2 - Group ID | Numeric group identifier | N/A |
| 3 - Group Name | Name of the group | N/A |
| 4 - Schedule Test | Previous/next group test date | N/A |
| 5 - Units | Number of units allocated to the group | **Units in Group** page |

Note: A fitting can only be allocated the Default or User Defined Groups at any point in time. As the Retest and Maintenance Groups are virtual a fitting may also be assigned to one of these groups in addition to its User Defined Group.

# Units in Domain Page

The **Units in Domain** page illustrated in figure 4, provides a graphical overview of the fitting status for all units in the domain. The following sections detail each of the main features presented on this page.

Note: Refer to appendix C for a description of the fitting icons and the meanings of their various colourings.

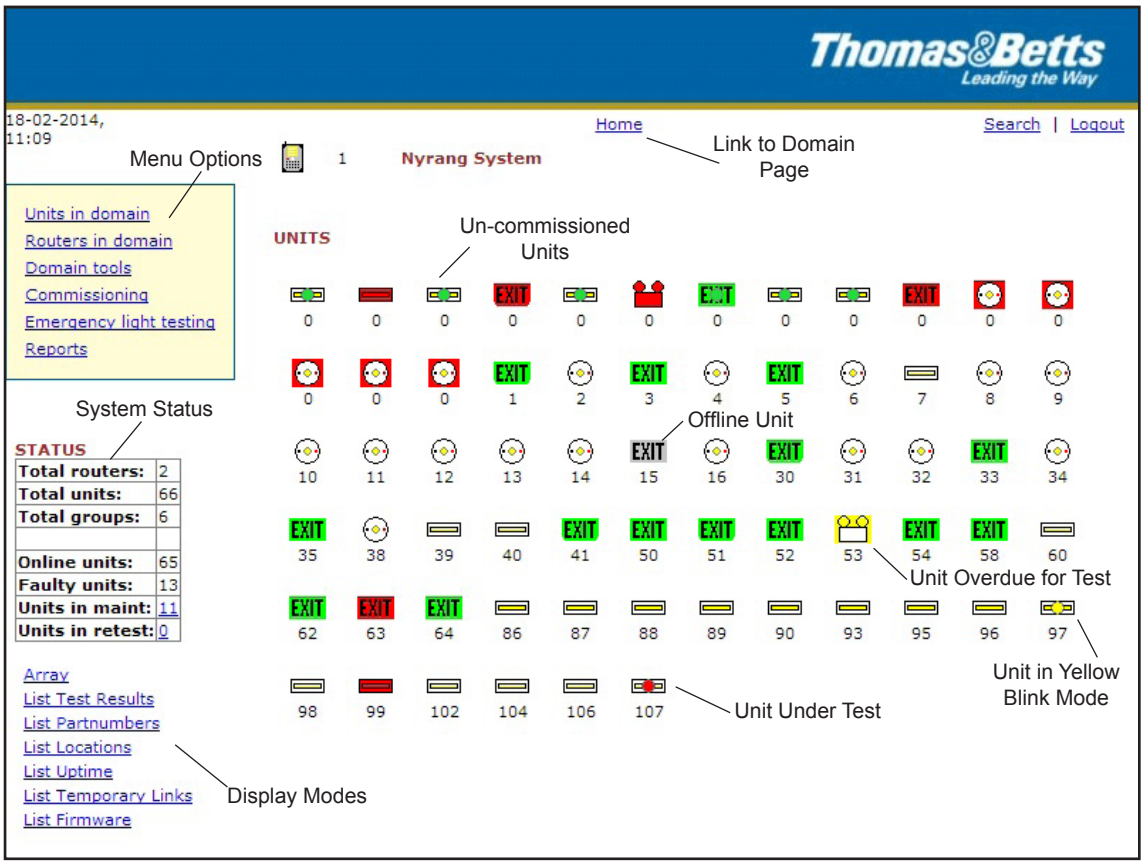



**Figure 4 - Units in Domain Page**

Clicking on a fitting results in the **Unit Details** page being displayed for this fitting, refer to page 23.

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Units in Domain | **Units in Domain** page, refer page 7 |
| Routers in Domain | **Routers in Domain** page, refer page 10 |
| Domain Tools | **Domain Tools** page, refer page 13 |
| Commissioning | **Commissioning** page, refer page 15 |
| Emergency Light Testing | **Emergency Light Testing** page, refer page 17 |
| Reports | **Reports** page, refer page 20 |

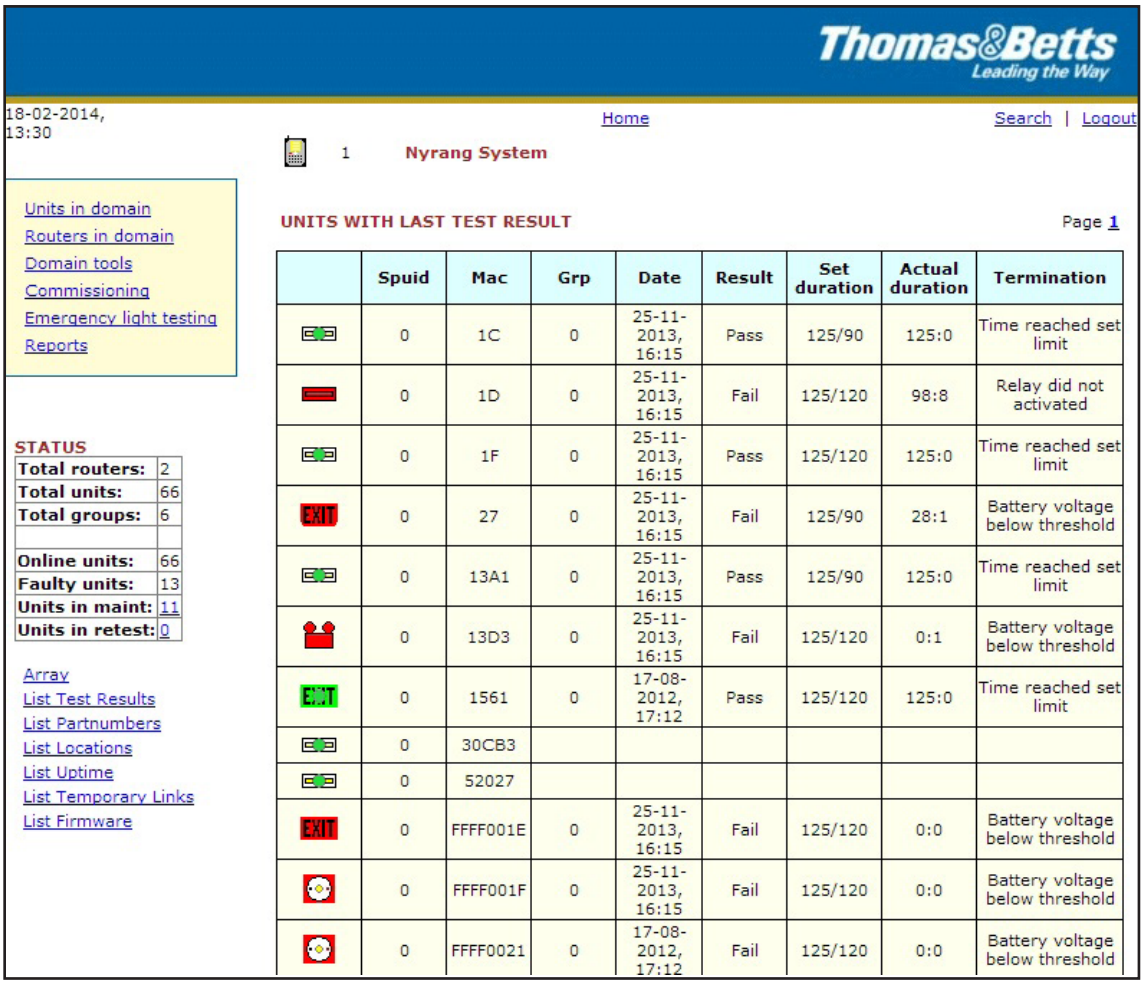
## System Status

This section provides a summary of the systems status, the fields are described in the following table.

| Item | Description | Page Link |
|---|---|---|
| Total Routers | Number of Routers in the system | N/A |
| Total Units | Number of units in the system | N/A |
| Total Groups | Number of groups in the system, excluding the Retest and Maintenance Groups | N/A |
| Online Units | Number of units communicating correctly | N/A |
| Faulty Units | Number of units in fault | N/A |
| Units in Maintenance | Number of units in the Maintenance Group | Maintenance Group page |
| Units in Retest | Number of units in the Retest Group | Retest Group page |

## Display Modes

The default display for the fittings on the **Units in Domain** page is the array view as illustrated in figure 4. Alternate list view options are available for displaying specific fitting information; please refer to figures 5 and 6 for samples of the list test results and list locations display modes.




| | Spuid | Mac | Grp | Date | Result | Set duration | Actual duration | Termination |
|---|---|---|---|---|---|---|---|---|
| | 0 | 1C | 0 | 25-11-2013, 16:15 | Pass | 125/90 | 125:0 | Time reached set limit |
| | 0 | 1D | 0 | 25-11-2013, 16:15 | Fail | 125/120 | 98:8 | Relay did not activated |
| | 0 | 1F | 0 | 25-11-2013, 16:15 | Pass | 125/120 | 125:0 | Time reached set limit |
| EXIT | 0 | 27 | 0 | 25-11-2013, 16:15 | Fail | 125/90 | 28:1 | Battery voltage below threshold |
| | 0 | 13A1 | 0 | 25-11-2013, 16:15 | Pass | 125/90 | 125:0 | Time reached set limit |
| | 0 | 13D3 | 0 | 25-11-2013, 16:15 | Fail | 125/120 | 0:1 | Battery voltage below threshold |
| EXIT | 0 | 1561 | 0 | 17-08-2012, 17:12 | Pass | 125/120 | 125:0 | Time reached set limit |
| | 0 | 30CB3 | | | | | | |
| | 0 | 52027 | | | | | | |
| EXIT | 0 | FFFF001E | 0 | 25-11-2013, 16:15 | Fail | 125/120 | 0:0 | Battery voltage below threshold |
| | 0 | FFFF001F | 0 | 25-11-2013, 16:15 | Fail | 125/120 | 0:0 | Battery voltage below threshold |
| | 0 | FFFF0021 | 0 | 17-08-2012, 17:12 | Fail | 125/120 | 0:0 | Battery voltage below threshold |

**Figure 5 - List Test Results**

Thomas&Betts
Leading the Way

18-02-2014,
13:57

Home

Search | Logout

1 Nyrang System

Units in domain
Routers in domain
Domain tools
Commissioning
Emergency light testing
Reports

STATUS

| | |
|---|---|
| Total routers: | 2 |
| Total units: | 66 |
| Total groups: | 6 |
| | |
| Online units: | 66 |
| Faulty units: | 13 |
| Units in maint: | 11 |
| Units in retest: | 0 |

Array
List Test Results
List Partnumbers
List Locations
List Uptime
List Temporary Links
List Firmware

UNITS WITH LOCATION

| | Spuid | Mac | Net ID | Hop cnt | Building | Position | Floor | Area | Drawing | Gridref | SwBrd | Cct |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1C | 1-2-1-32 | 1 | Lidcombe | Production | Ground | Batten Over testing Bench | | | | |
| | 0 | 1D | 1-1-1-35 | 127 | | | | | | | | |
| | 0 | 1F | 1-2-1-8 | 127 | | | | | | | | |
| | 0 | 27 | 1-1-1-30 | 0 | | | | | | | | |
| | 0 | 13A1 | 1-1-1-43 | 127 | Lidcombe | Receiving Dock | Ground | Entry to Soldering room | | | | |
| | 0 | 13D3 | 1-1-1-41 | 3 | Lidcombe | Production | Ground | East wall over testing area | | | | |
| | 0 | 1561 | 1-1-1-6 | 127 | | | | | | | | |
| | 0 | 30CB3 | 1-2-1-4 | 127 | | | | | | | | |
| | 0 | 52027 | 1-2-1-11 | 127 | | | | | | | | |
| | 0 | FFFF001E | 1-1-1-42 | 127 | | | | | | | | |
| | 0 | FFFF001F | 1-2-1-17 | 127 | | | | | | | | |

**Figure 6 - List Locations**

# Routers in Domain Page

The **Routers in Domain** page as illustrated in figure 7, provides summary information for each of the Routers in the system. The following sections detail each of the main areas on this page.

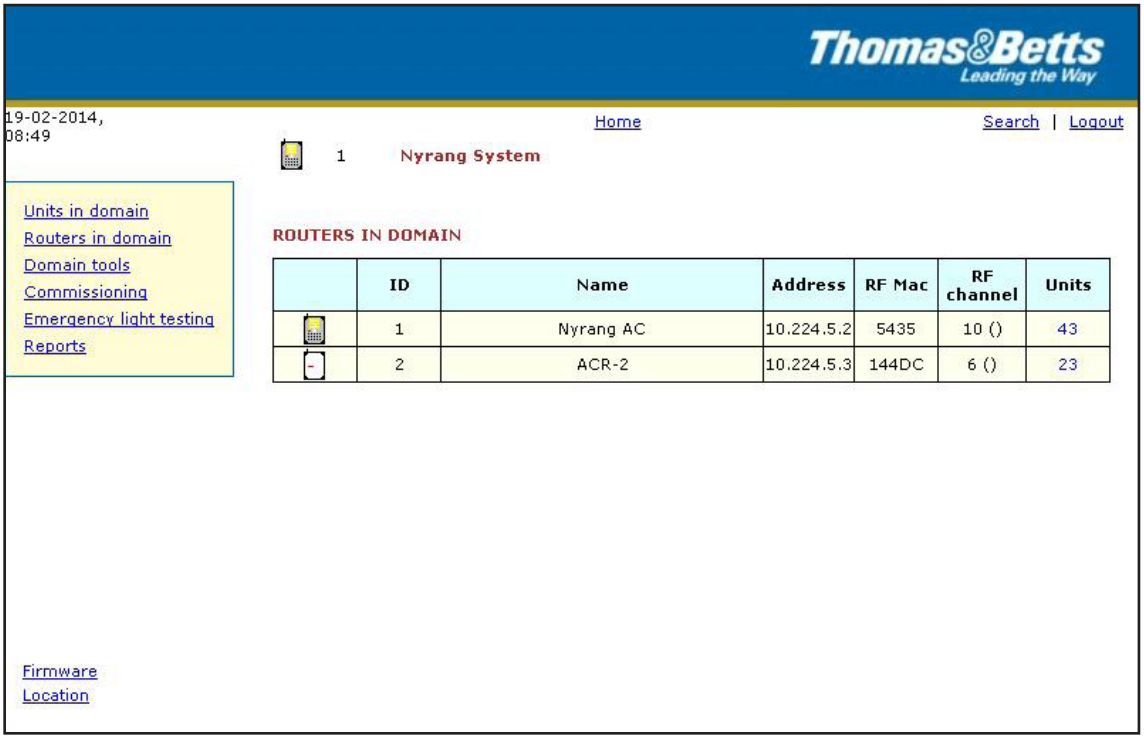



**Figure 7 - Routers in Domain Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Units in Domain | **Units in Domain** page, refer page 7 |
| Routers in Domain | **Routers in Domain** page, refer page 10 |
| Domain Tools | **Domain Tools** page, refer page 13 |
| Commissioning | **Commissioning** page, refer page 15 |
| Emergency Light Testing | **Emergency Light Testing** page, refer page 17 |
| Reports | **Reports** page, refer page 20 |

## Routers in Domain

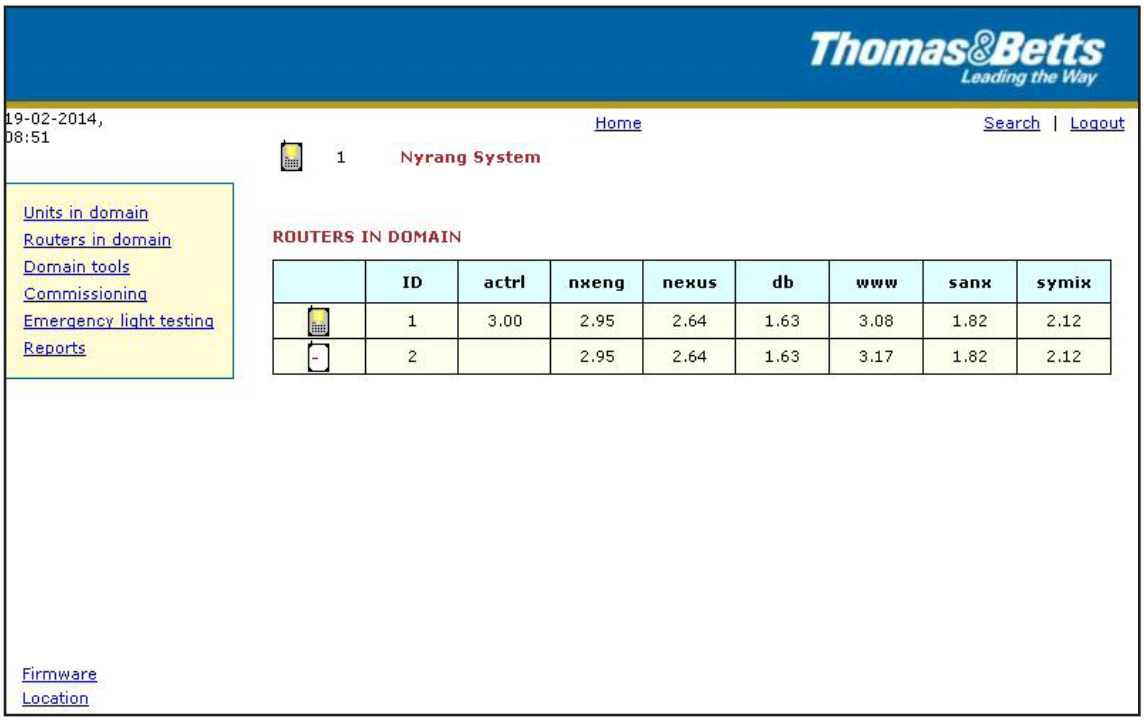
The following information is displayed for each of the Routers in the system:

- Router ID
- Router Name
- IP Address
- The MAC address of its EIM card
- The RF channel for the EIM card, ie: 1 - 12
- The number of units, currently meshed to the Router
- Router type, ie: AC, ACR, NAC or NACR

Selecting one of the Routers will result in the Router Details Page (refer page 21) being displayed for this Router.

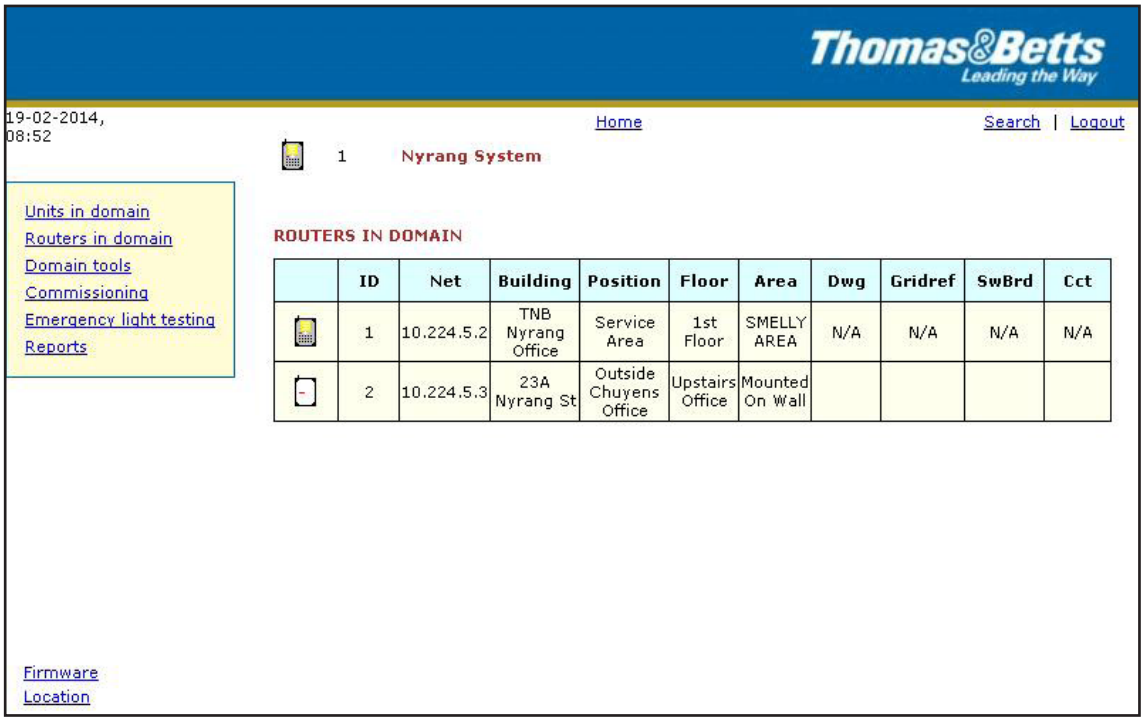
## Display Modes

Alternate display mode options are available to display the Router firmware and location details, see figures 8 and 9.




| | ID | actrl | nxeng | nexus | db | www | sanx | symix |
|---|---|---|---|---|---|---|---|---|
| | 1 | 3.00 | 2.95 | 2.64 | 1.63 | 3.08 | 1.82 | 2.12 |
| | 2 | | 2.95 | 2.64 | 1.63 | 3.17 | 1.82 | 2.12 |

**Figure 8 - Router FW Display Mode**




| | ID | Net | Building | Position | Floor | Area | Dwg | Gridref | SwBrd | Cct |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 10.224.5.2 | TNB Nyrang Office | Service Area | 1st Floor | SMELLY AREA | N/A | N/A | N/A | N/A |
| | 2 | 10.224.5.3 | 23A Nyrang St | Outside Chuyens Office | Upstairs Office | Mounted On Wall | | | | |

**Figure 9 - Router Location Display Mode**

# Domain Tools Page

The **Domain Tools** page as illustrated in figure 10, provides miscellaneous domain level functions. The following sections detail each of the main areas on this page.

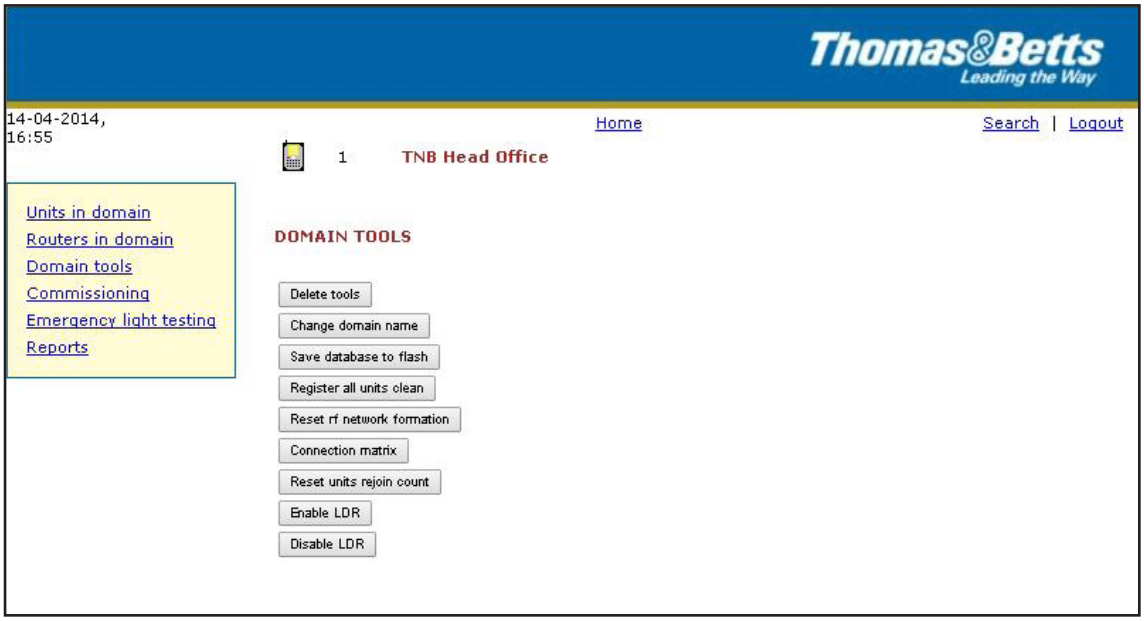



**Figure 10 - Domain Tools Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Units in Domain | **Units in Domain** page, refer page 7 |
| Routers in Domain | **Routers in Domain** page, refer page 10 |
| Domain Tools | **Domain Tools** page, refer page 13 |
| Commissioning | **Commissioning** page, refer page 15 |
| Emergency Light Testing | **Emergency Light Testing** page, refer page 17 |
| Reports | **Reports** page, refer page 20 |

## Domain Tools

| Function | Description |
|---|---|
| Delete Tools | Allows the deletion of Routers, groups and fittings from the system |
| Change Domain Name | Used to edit the systems domain name |
| Save database to flash | Reserved for Thomas & Betts service representatives |
| Register all units clean | Reserved for Thomas & Betts service representatives |
| Reset RF network formation | Reserved for Thomas & Betts service representatives |
| Reset units re-join count | Reserved for Thomas & Betts service representatives |
| Enable LDR | This is a system wide function that will enable LDR monitoring for all fittings that are fitted with an LDR |
| Disable LDR | This is a system wide function that will disable LDR monitoring for all fittings |

# Commissioning Page

The **Commissioning** page as illustrated in figure 11, provides miscellaneous system commissioning functions. The following sections detail each of the main areas on this page.

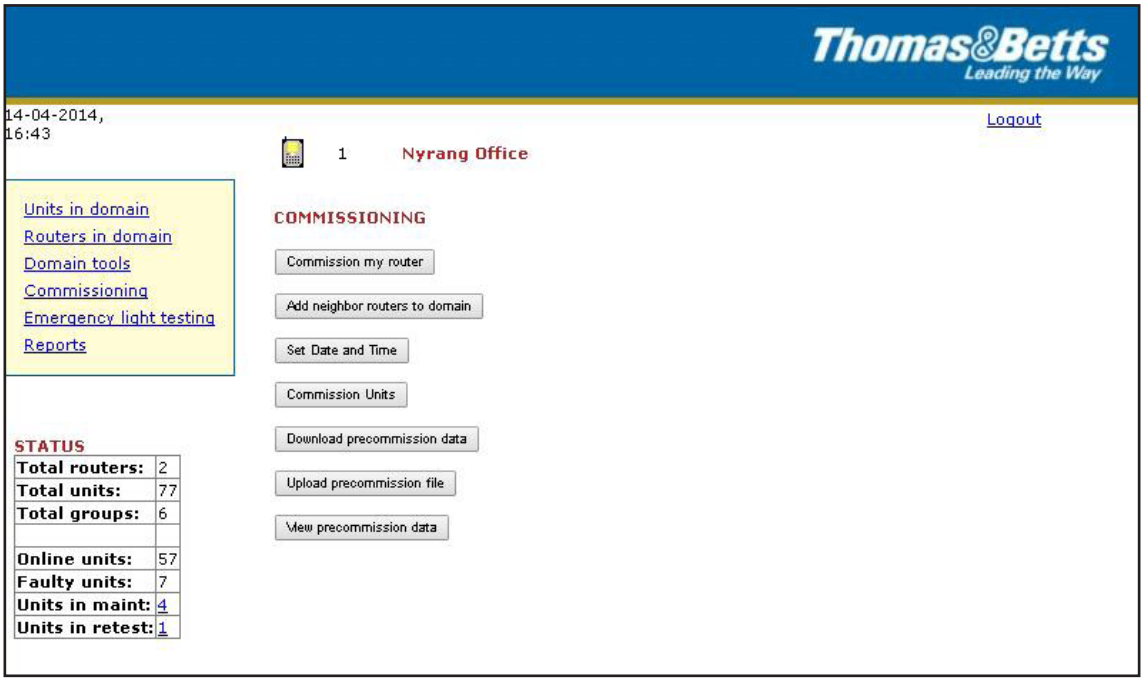



**Figure 11 - Commissioning Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Units in Domain | **Units in Domain** page, refer page 7 |
| Routers in Domain | **Routers in Domain** page, refer page 10 |
| Domain Tools | **Domain Tools** page, refer page 13 |
| Commissioning | **Commissioning** page, refer page 15 |
| Emergency Light Testing | **Emergency Light Testing** page, refer page 17 |
| Reports | **Reports** page, refer page 20 |

## Commissioning Functions

| Function | Description |
|---|---|
| Commission my Router | Used to configure the Routers ID, name and IP address configuration parameters |
| Add neighbour Routers to domain | Used to add Routers to the system |
| Set date and time | Allows the system date, time and jurisdiction to be set |
| Commission Units | An alternative method for commissioning fittings |
| Download pre-commission file | Once a CSV commissioning file has been uploaded to the system, this initiates the commissioning process |
| Upload pre-commission file | Used to upload a CSV commissioning file up to the system |
| View pre-commission data | Can be used to view the previously uploaded CSV commissioning file data in the system |

# Groups in Domain Page

The **Groups in Domain** page as illustrated in figure 12, provides summary information for the groups in the system. The following sections detail each of the main areas on this page.

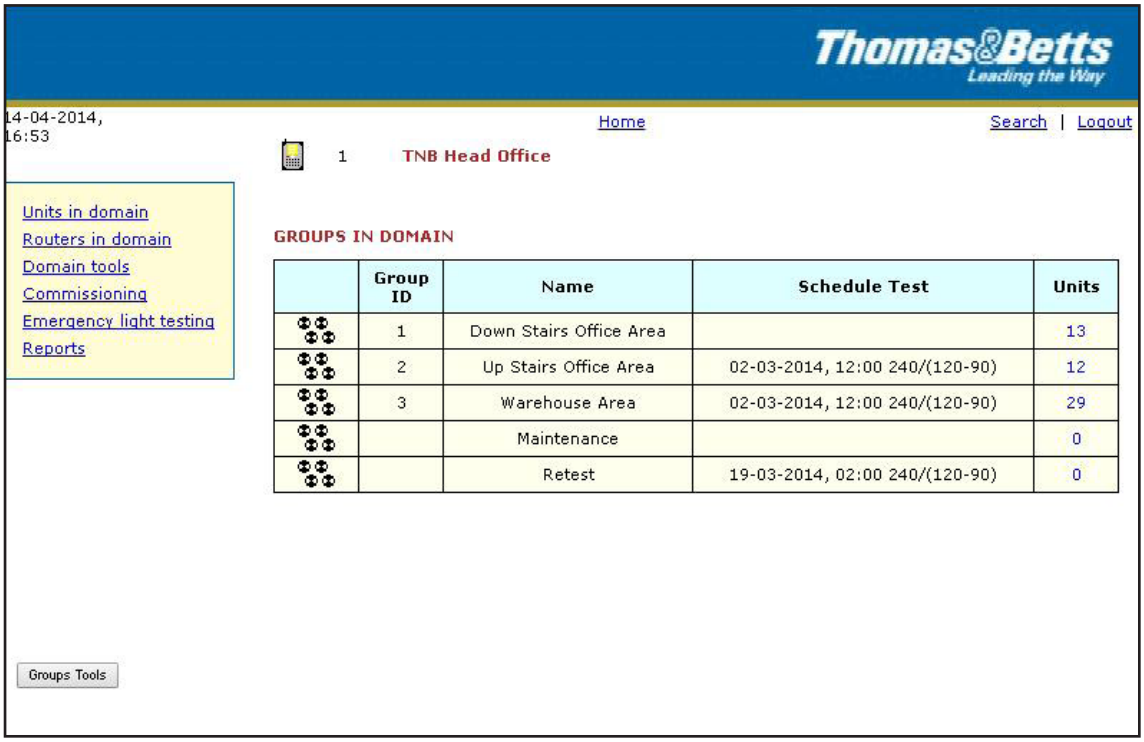



**Figure 12 - Groups in Domain Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Units in Domain | **Units in Domain** page, refer page 7 |
| Routers in Domain | **Routers in Domain** page, refer page 10 |
| Domain Tools | **Domain Tools** page, refer page 13 |
| Commissioning | **Commissioning** page, refer page 15 |
| Emergency Light Testing | **Emergency Light Testing** page, refer page 17 |
| Reports | **Reports** page, refer page 20 |

## Group Tools

On pressing the **Group Tools** button, the following **Group Tools** are made available.

**Figure 13 - Group Tools**

| Function | Description |
|---|---|
| Program Discharge Test | Allows a Discharge Test to be scheduled for the group, including the date or time for the test and its duration |
| Program Discharge Test with Adjustable Limit | Reserved for Thomas & Betts service representatives |
| Stop Discharge Test | This function can be used to abort a currently active Discharge Test on this group |
| Delete Schedule | This function clears the currently Scheduled Discharge Test for the group |
| Diagnostic Test | Allows all fittings within the group to put into a One Minute Diagnostic Test |
| Add unit to this Group | An array of units that are currently not allocated to this group are displayed. Multiple fittings can be selected via their check boxes for re-allocation to this group. In the case of the Retest Group the fittings are simply flagged as being in the Retest Group and are not actually removed from their current group |
| Move units to Default Group | The Default Group is group ID 0. An array of the units currently allocated to this group are displayed. Multiple fittings can be selected via their check boxes for re-allocation to the Default Group. This function is not relevant for the Retest and Maintenance Groups |
| Group Yellow Blink On | Places all fittings within the group into the Yellow Blink Mode |
| Group Yellow Blink Off | All fittings within the group that are currently in Yellow Blink Mode, will be restored to normal operation |
| Rename Group | Allows the name for the group to be edited. This is not applicable for the Maintenance and Retest Goups |
| Enable LDR | All fittings within the group that are fitted with LDR's will have their LDR monitoring functionality enabled |
| Disable LDR | All fittings within the group will have their LDR monitoring functionality disabled |

## Program a Discharge Test

On selecting the **Program Discharge Test** function, the operator will be presented with the **Program Discharge Test** page as illustrated in figure 14.

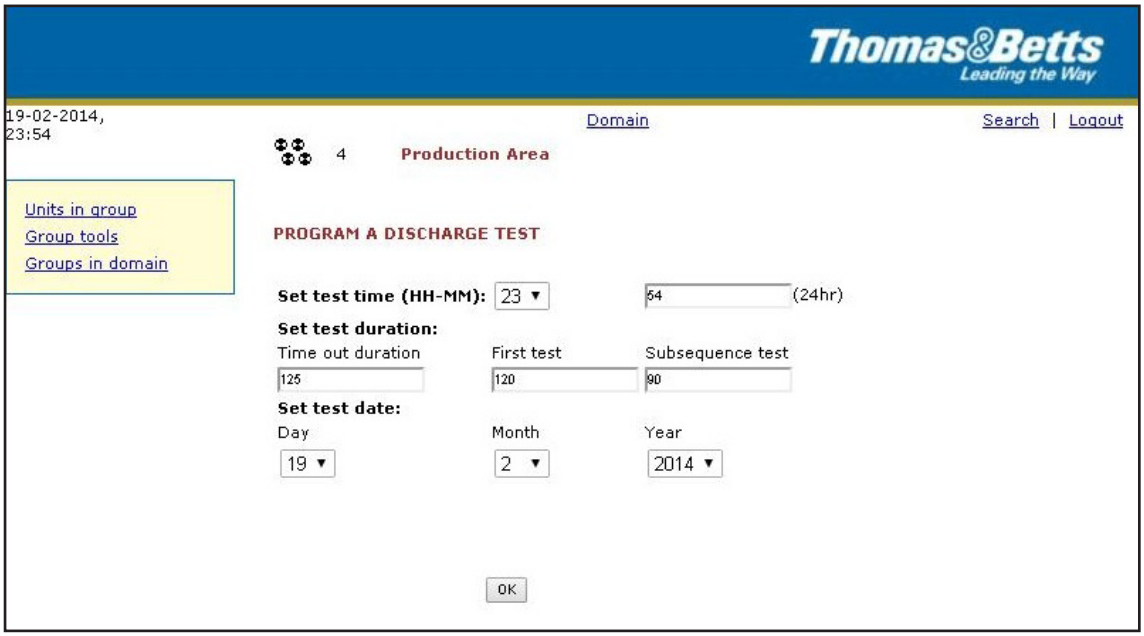



**Figure 14 - Program Discharge Test Page**

# Reports Page

The **Reports** page as illustrated in figure 15, provides access to the many system reports.

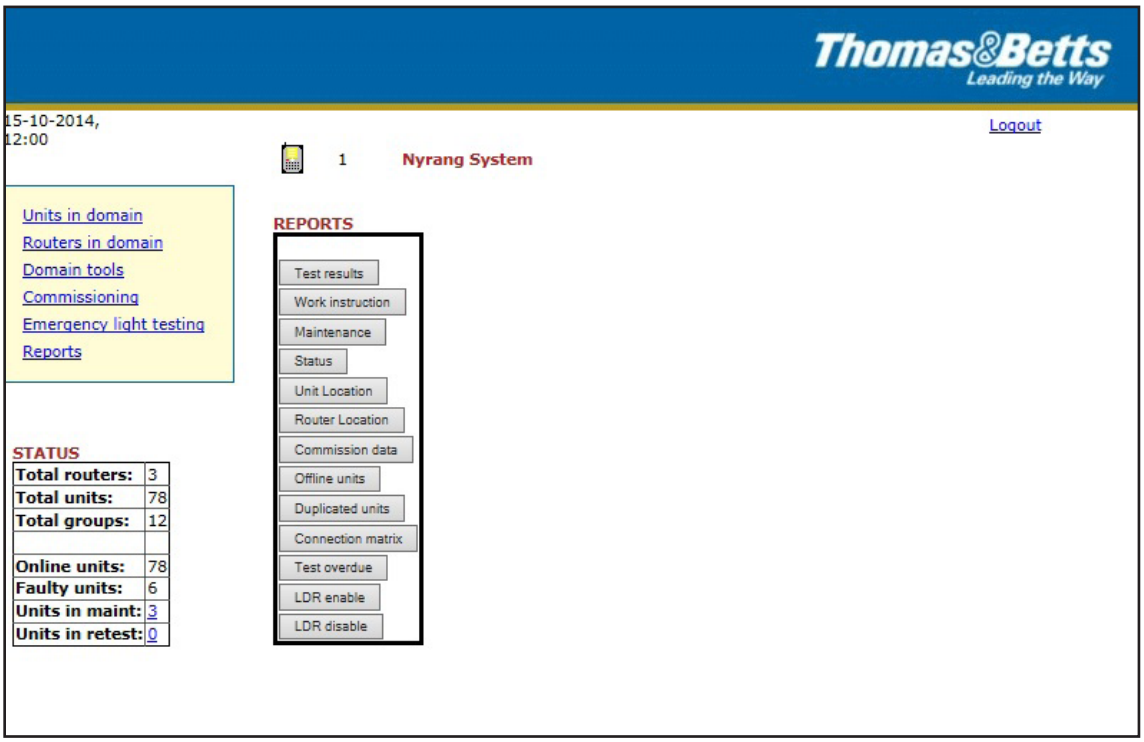



**Figure 15 - Reports Page**

## Available Reports

The following table details the available reports available from this page.

| Report | Description | Filtering Options |
|---|---|---|
| Test Results | The latest fitting test results | All Units \| Group \| Unit |
| Work Instruction | Fittings in the system that require maintenance, ie: status faults or test failures (excludes offline fittings) | None |
| Maintenance | Fitting maintenance log entries | All Units \| Group \| Unit |
| Status | Can be used to generate a subset of units from the system that match a specific selection of criteria | Multiple selection criteria |
| Unit Location | Unit location details | All Units \| Group \| Unit |
| Router Location | Router location details | None |
| Commission Data | The fitting commission data that is in CSV format suitable for uploading into Excel | None |
| Offline Units | Units that are currently offline | None |
| Duplicated Units | Units that have duplicate SPU ID's | None |
| Connection Matrix | Reserved for Thomas & Betts service representatives | None |
| Test Overdue | Units that are currently overdue for a discharge test, this is based on a 6 monthly testing cycle | None |
| LDR Enable | Units that currently have their LDR enabled | None |
| LDR Disable | Units that currently have their LDR disabled | None |

# Router Details Page

The **Router Details** page as illustrated in figure 16, provides summary information for the selected Router. The following sections detail each of the main areas on this page.

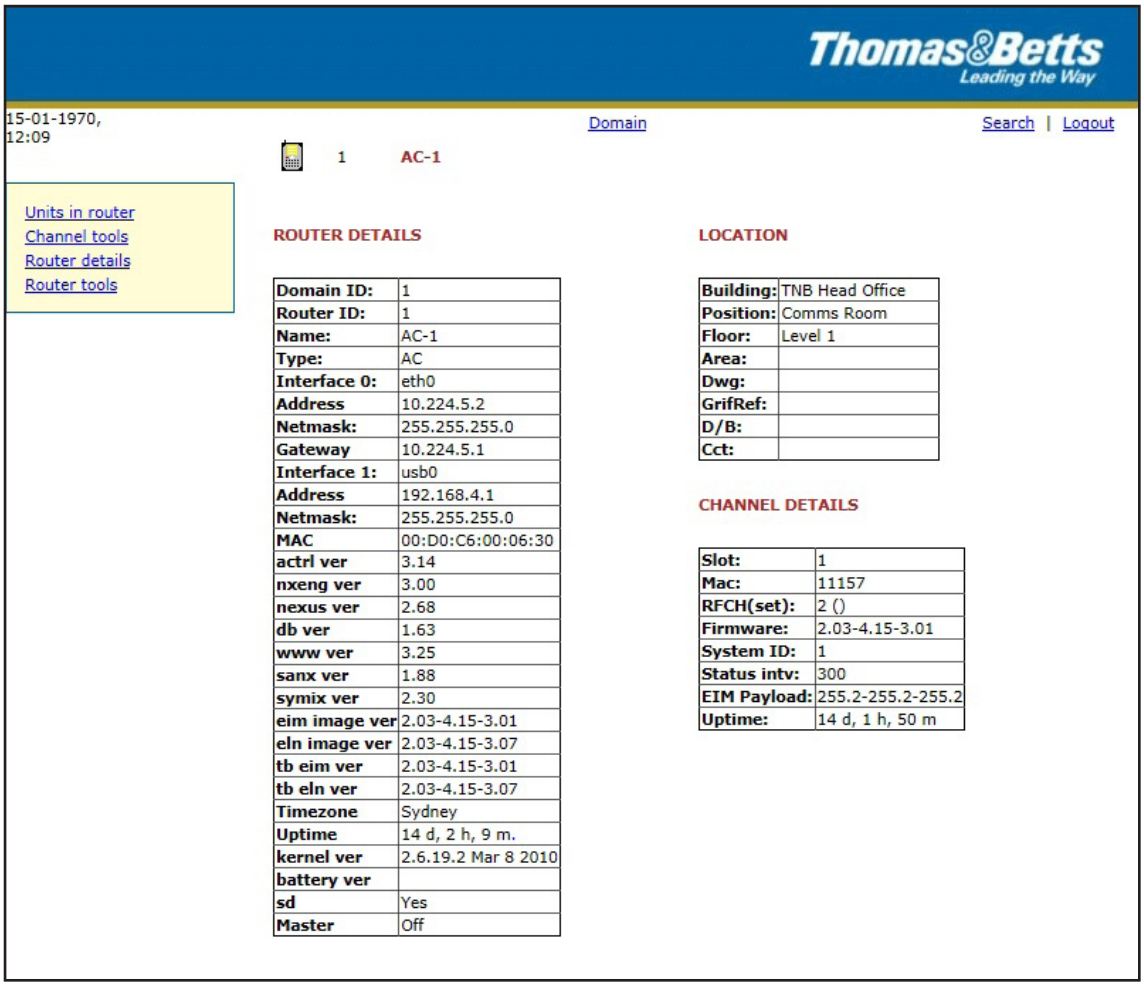



**Figure 16 - Router Details Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Units in Router | Provides a list of the units that are currently meshed to this Router |
| Channel Tools | Reserved for Thomas & Betts service representative |
| Router Details | This page |
| Router Tools | Provides tools for editing the Routers location details and service tools for upgrading the controller FW and symix tables |

## Router Details

Details the following Router parameters:

- Router ID
- Router Name
- Router Type, ie: AC, ACR, NAC or NACR
- Ethernet IP address settings
- USB IP address settings
- Controller RW revisions
- Timezone jurisdiction
- The uptime of the Router

## Location

These fields represent the location details for this Router.

## Channel Details

Details the following RF module parameters and status:

- RF channel currently being used, ie: 1 - 12
- RF module RF revision
- The Routers system ID
- The uptime of the RF module

# Unit Details Page

The **Unit Details** page illustrated in figure 17, provides a complete summary of a fittings configuration, communication status, current status, test results and maintenance history. The following sections detail each of the main areas on this page.

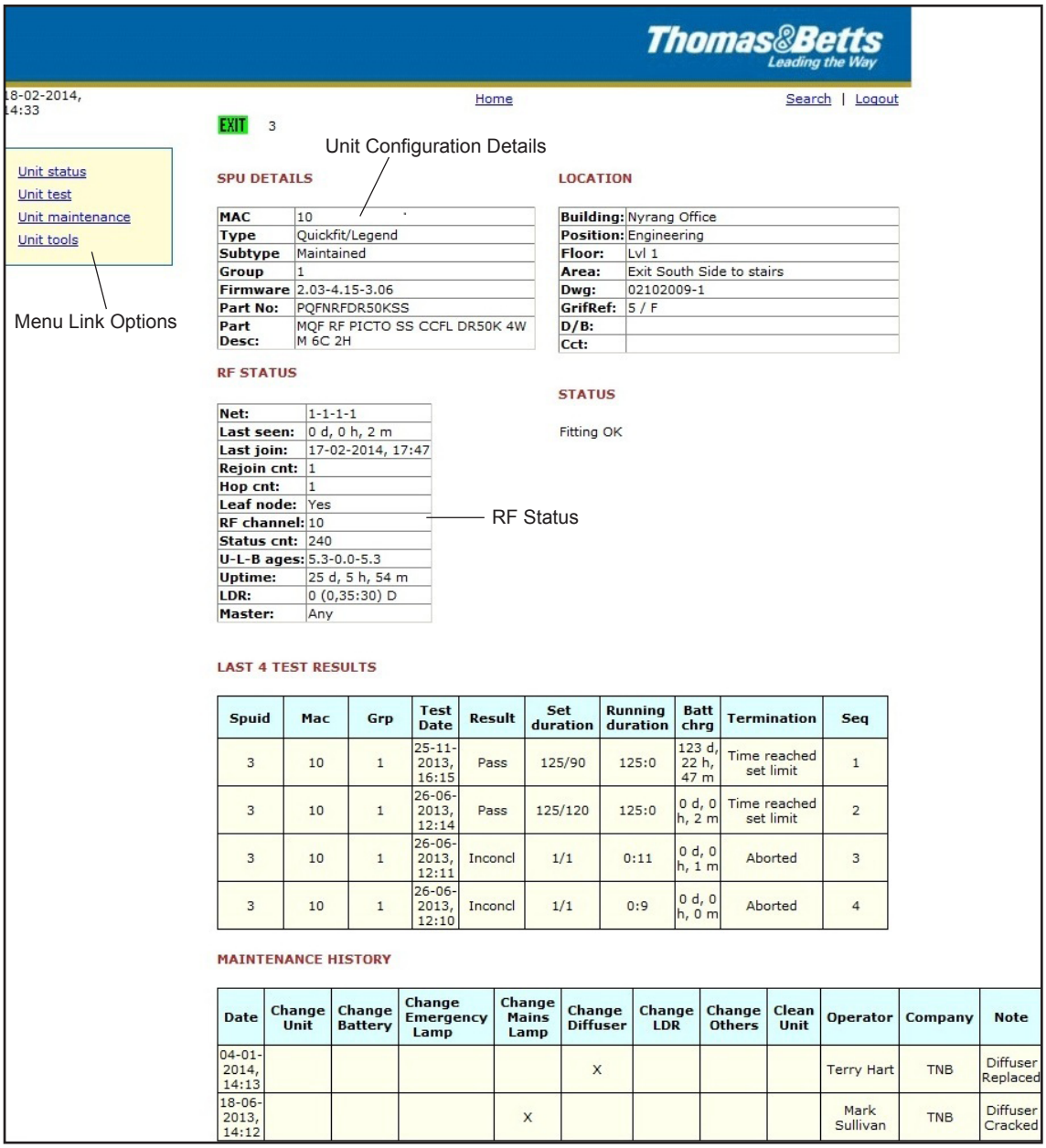



**Figure 17 - Unit Details Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Unit Status | **Unit Details** page, refer page 23 |
| Unit Test | **Unit Test** page, refer page 26 |
| Unit Maintenance | **Unit Maintenance** page, refer page 28 |
| Unit Tools | **Unit Tools** page, refer page 30 |

## SPU Details

The following table details SPU details entries.

| Item | Description |
|---|---|
| MAC | The unique hardware ID of this fitting, ie: its MAC address |
| Type | The unit type; Quickfit®, Legend, etc |
| Sub-type | The unit sub-type; maintained, non-maintained, etc |
| Group | The group ID to which this fitting is assigned |
| Firmware | The version of firmware loaded into the fitting |
| Part No. | The unit part number |
| Part Description | The unit description derived from the unit part number |

## RF Status

The following table details RF status entries.

| Item | Description |
|---|---|
| Net | The system address of the unit |
| Last Seen | Time since the unit last validly communicated with the system |
| Last Join | The date or time at which the unit last joined one of the systems mesh networks |
| Re-join Count | This field is no longer valid |
| Hop Count | This field is no longer valid |
| Leaf Node | A fitting is a leaf node if it does not have any downlinks to other fittings; yes, no |
| RF Channel | Which RF channel is this fitting communicating on; 1 - 12 |
| Status Count | Reserved for Thomas & Betts service representatives |
| U-L-B Ages | The approximate unit, lamp and battery ages in years |
| Uptime | This is the time duration since the unit was last reset or power cycled |
| LDR | The state and current hysteresis levels for the fittings LDR, where appropriate |
| Master | This field is reserved for the future master function, ie: where you can select a specific controller to which this fitting is allowed to mesh |

## Location

Each fitting has the eight location fields as illustrated in figure 17 to assist in uniquely defining its physical install location, its electrical circuit connection and any floor plan references.

## Status

This represents the current status of the fitting which for different fitting types could include:

- The overall fitting status
- Battery charging faults
- Lamp faults
- The state of the units switched active

## Last Four Test Results

This section displays the four most recent, production, diagnostic and discharge test results for the fitting.

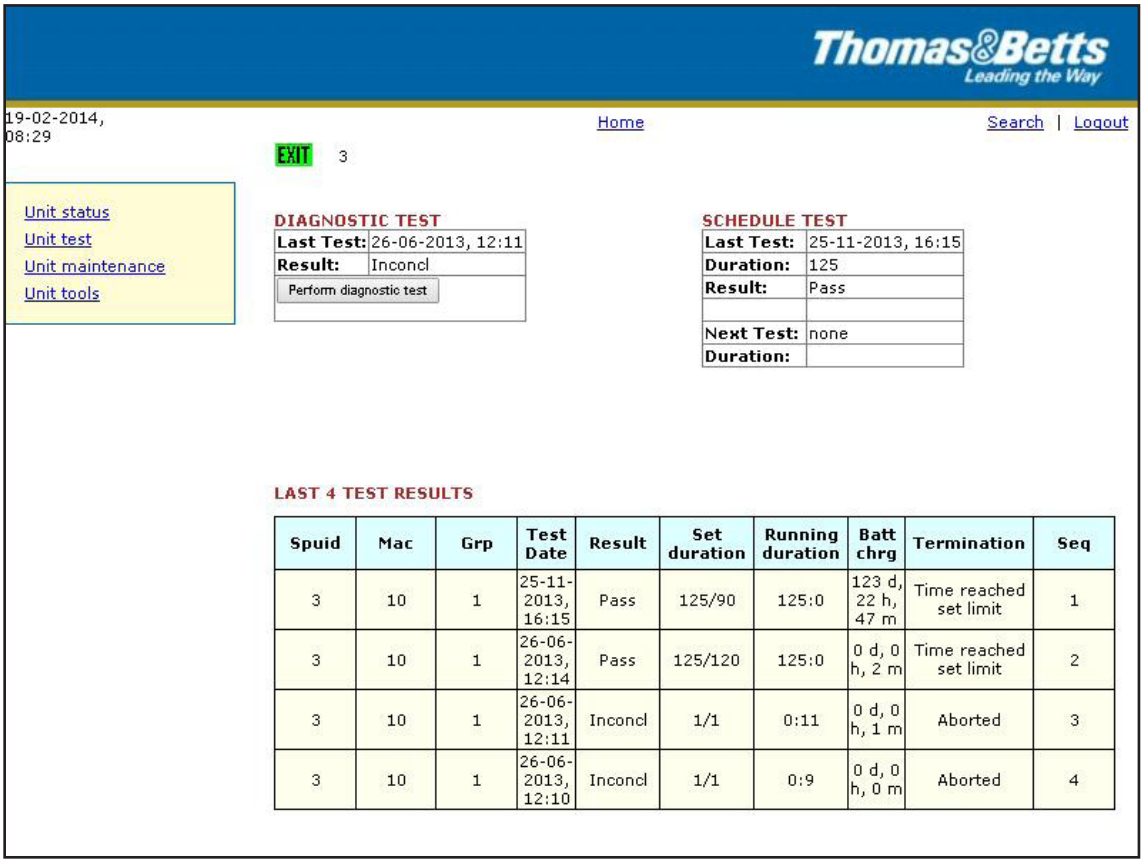
## Maintenance History

This section displays the maintenance history entries for the fitting. Each maintenance entry record includes the following information:

- The date of the maintenance action
- General note section
- Operator and company details for who performed the maintenance action
- A series of selectable maintenance actions

# Unit Test Page

The **Unit Test** page as illustrated in figure 18, provides test result summary information for the fitting. The following sections detail each of the main areas on this page.




| Spuid | Mac | Grp | Test Date | Result | Set duration | Running duration | Batt chrg | Termination | Seq |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 10 | 1 | 25-11-2013, 16:15 | Pass | 125/90 | 125:0 | 123 d, 22 h, 47 m | Time reached set limit | 1 |
| 3 | 10 | 1 | 26-06-2013, 12:14 | Pass | 125/120 | 125:0 | 0 d, 0 h, 2 m | Time reached set limit | 2 |
| 3 | 10 | 1 | 26-06-2013, 12:11 | Inconcl | 1/1 | 0:11 | 0 d, 0 h, 1 m | Aborted | 3 |
| 3 | 10 | 1 | 26-06-2013, 12:10 | Inconcl | 1/1 | 0:9 | 0 d, 0 h, 0 m | Aborted | 4 |

**Figure 18 - Unit Test Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Unit Status | **Unit Details** page, refer page 23 |
| Unit Test | **Unit Test** page, refer page 26 |
| Unit Maintenance | **Unit Maintenance** page, refer page 28 |
| Unit Tools | **Unit Tools** page, refer page 30 |

## Diagnostic Test

This section illustrates the date and result for this units most recent 1 minute diagnostic test. A button is also provided to initiate a new immediate diagnostic test on this unit.

## Schedule Test

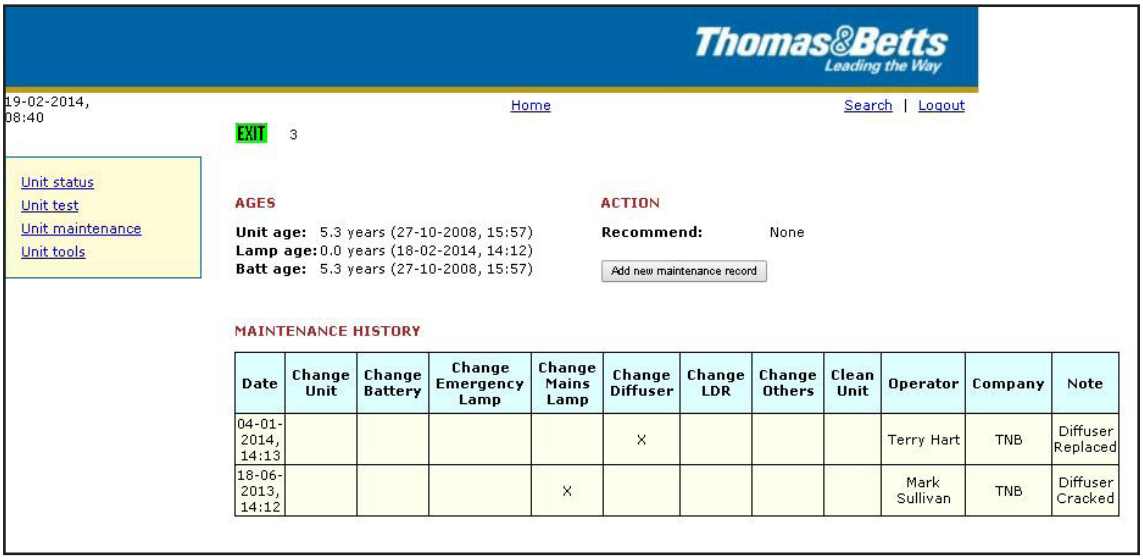
This section provides details of the last discharge test for this unit and the date or time for the next pending group scheduled test (if applicable).

## Last Four Test Results

This section displays the four most recent, production, diagnostic or discharge test results for the fitting.

# Unit Maintenance Page

The **Unit Maintenance** page as illustrated in figure 19, provides a summary of the fittings maintenance history records. The following sections detail each of the main areas on this page.




| Date | Change Unit | Change Battery | Change Emergency Lamp | Change Mains Lamp | Change Diffuser | Change LDR | Change Others | Clean Unit | Operator | Company | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04-01-2014, 14:13 | | | | | X | | | | Terry Hart | TNB | Diffuser Replaced |
| 18-06-2013, 14:12 | | | | X | | | | | Mark Sullivan | TNB | Diffuser Cracked |

**Figure 19 - Unit Maintenance Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Unit Status | **Unit Details** page, refer page 23 |
| Unit Test | **Unit Test** page, refer page 26 |
| Unit Maintenance | **Unit Maintenance** page, refer page 28 |
| Unit Tools | **Unit Tools** page, refer page 30 |

## Ages

This section provides the individual ages and install dates for the unit, its lamp and battery. The lamp and battery install dates are updated in the system based on appropriate maintenance history records.

## Maintenance History

This is the equivalent of the log book maintenance record for a non-monitored systems fitting. All maintenance actions on a fitting should be recorded by an appropriate maintenance record entry.

## Add New Maintenance Record

The **Add New Maintenance Record** button allows a new maintenance record to be added for a fitting. On pressing this button the **Add New Maintenance Record** page is displayed as in Figure 20.

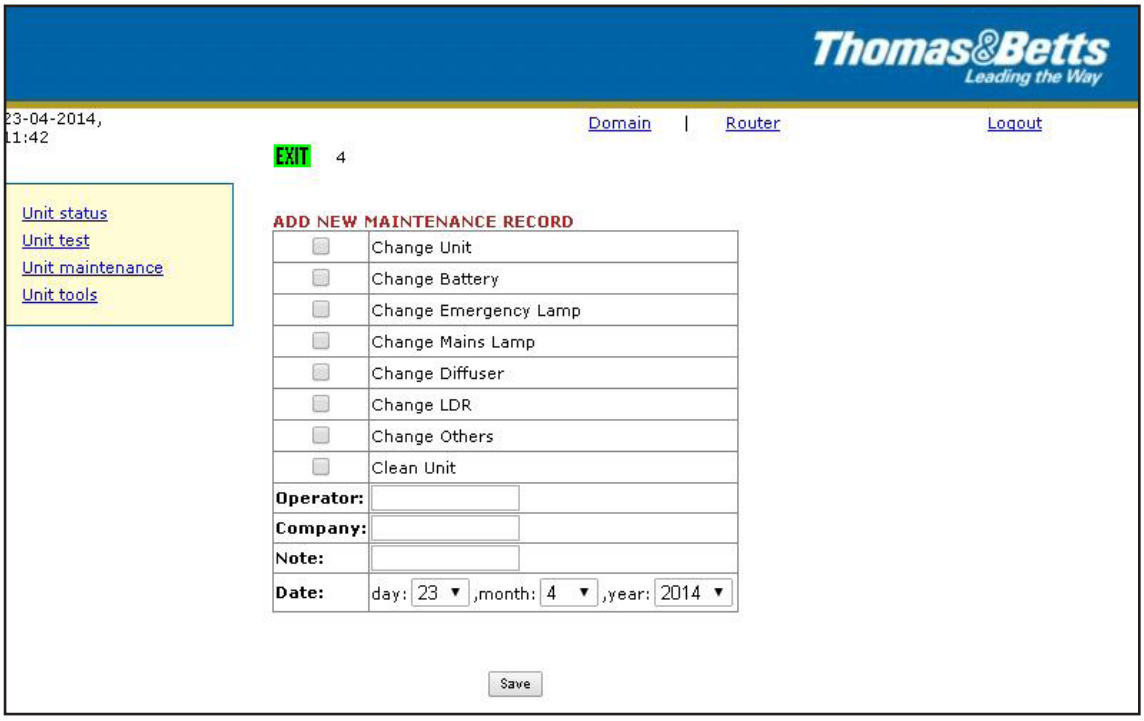



**Figure 20 - Add New Maintenance Record Page**

# Unit Tools Page

The **Unit Tools** page as illustrated in figure 21, provides a series of functions that can be performed on this fitting. The following sections detail each of the main areas on this page.

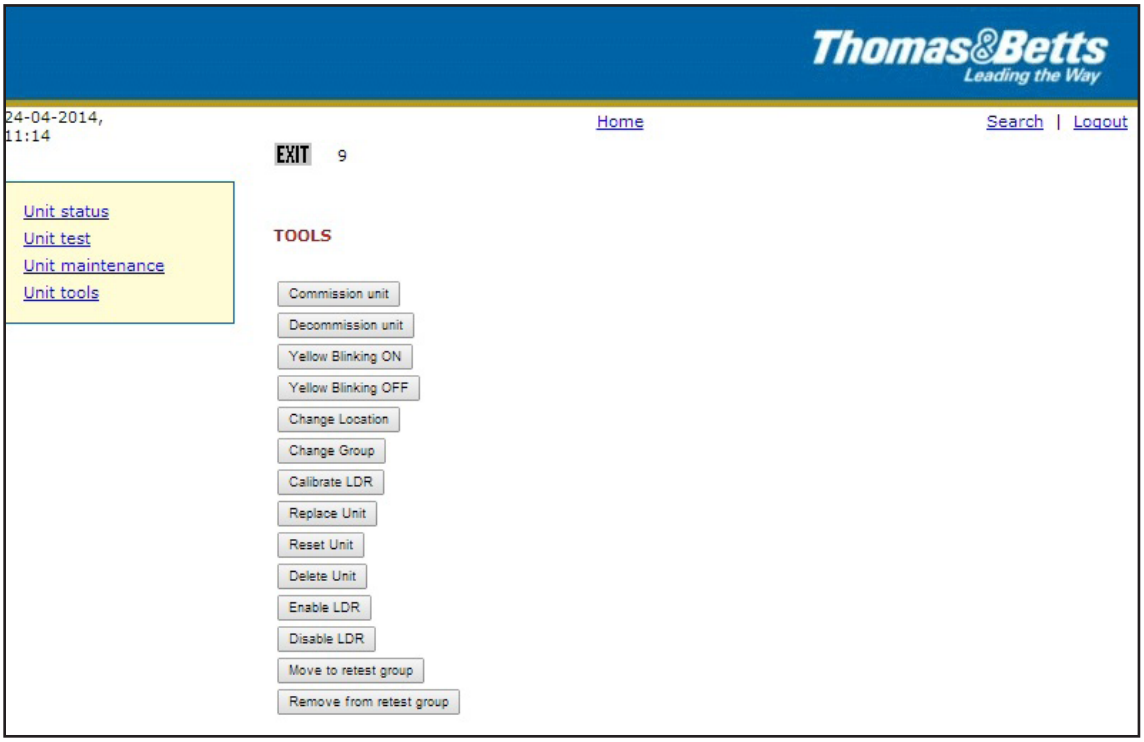



**Figure 21 - Unit Tools Page**

## Menu Options

The following table details the function of the available menu functions.

| Menu Option | Page Link |
|---|---|
| Unit Status | **Unit Details** page, refer page 23 |
| Unit Test | **Unit Test** page, refer page 26 |
| Unit Maintenance | **Unit Maintenance** page, refer page 28 |
| Unit Tools | **Unit Tools** page, refer page 30 |

## Fitting Functions

The following table details the available fitting functions.

| Item | Description |
|---|---|
| Commission Unit | This function allows a non zero SPU ID to be assigned to a fitting, ie: effectively commissioning the unit |
| De-commission Unit | This function de-commissions the fitting, ie: restores its SPU ID to 0 |
| Yellow Blinking On | Sets the units status LED into a yellow blinking mode, signified by a yellow dot appearing on the fitting |
| Yellow Blinking Off | Restores the units status LED back to normal operation, ie: fitting status reporting |
| Change Location | Allows the various unit location parameters to be updated |
| Change Group | Allows the group assignment for the fitting to be changed, this does not include the Retest Group |
| Calibrate LDR | This function is only relevant for fittings that are fitted with an LDR and don't currently have their LDR monitoring functionality disabled. In this case the current light reading on the LDR will be calibrated to be 100%. The LDR is calibrated as part of the units production configuration or test process and hence should be rarely required on units in the field. This function should only ever be used on fittings that have been fitted with new lamps; ie: they are truly operating at 100% light output. |
| Replace Unit | Use this function to replace an offline faulty fitting with an online un-commissioned fitting, ie: a newly installed replacement fitting |
| Reset Unit | This function performs a hardware reset on the unit |
| Delete Unit | The Delete Unit function, flags the unit in the database as deleted from the system. It only makes sense to delete a fitting that has truly been removed from the system, as attempting to delete online fittings will only result in the fitting being removed from the system temporarily. Once the unit successfully communicates with the system it is effectively un-deleted. |
| Enable LDR | Enables the units LDR monitoring functionality, this is only relevant for fittings fitted with an LDR. The default behaviour for a units LDR monitoring is disabled. |
| Disable LDR | Disables the units LDR monitoring functionality |
| Move to Retest Group | This function allows the unit to be manually added to the Retest Group. Note: This in no way affects the units current test group assignment |
| Remove from Retest Group | Removes the unit from the Retest Group. Under certain status conditions for the fitting the system may well given time re-assign the fitting to the Retest Group, ie: inconclusive test results |

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All technical claims in this document are based upon technical information available at the time of publication. This information may change over time and comparisons may therefore vary.

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